

FOLIO



National Championship Won

The Golden Bears are the number one varsity volleyball team in the nation.

On Saturday, 9 March, at the University of Victoria the Golden Bears defeated the defending champions, the University of Manitoba Bisons, in five games to clinch the national title. It was the first-ever national volleyball title for The University of Alberta since a Canada-wide playoff tournament was instituted.

The Golden Bears were led by the excellent play of Terry Danyluk, who was voted the tournament's most valuable player. Danyluk, who has been invited to join Canada's national team, was joined on the tournament all-star team by team-mate Dave

Wilson.

The volleyball title is the third Canadian Interuniversities Athletic Union championship to be brought back to The University of Alberta this year. The volleyball Bears are following the footsteps of their football counterparts and the Track and Field squad.

While the volleyball team was winning its laurels on the West Coast, the Golden Bear gymnasts were distinguishing themselves in Calgary. They accumulated 155.70 points to earn second place in the CIAU final meet held at the University of Calgary. The Bears had 5.45 fewer points than did the York University team which won its eighth consecutive CIAU gymnastics title. □

AMF Allocations Awarded

The Allocations Committee of the Alma Mater Fund met recently and awarded grants to University groups whose projects, it is hoped, will give an added dimension to University activities.

In order to be eligible for Alma Mater Fund support a project should have strong student and student-community orientation. Excluded from support are those projects which would normally be funded from the University's general operating or research funds and those designed to advance academic careers of individual students, such as the publishing of a thesis. As well, support cannot be awarded to finance salaries or for publications already in existence.

Grants are normally made on a one-time only basis and organizers of continuing projects cannot be assured of annual support from the AMF.

When submitting a request for funding, organizers must include in their request a complete description of the project and provide an indication of how the community will benefit, both internally and externally. A complete budget must accompany the request outlining income and expenditure and the sources thereof as well as a list of other funding sources, including to whom application has been made but who perhaps have not indicated any commitment. The amount of the grants sought elsewhere must also be indicated.

The AMF Allocations Committee has taken all of the aforementioned into consideration and have awarded grants to the following:

Student Organizations

—Students' Orientation Services received a grant to assist in the production of a slide/sound presentation aimed at the prospective student and his/her family.

—The University of Alberta Debating Society, with the assistance of the AMF, will stage a Model United Nations. Sixty participants are expected to debate on world affairs and international politics.

—The University of Alberta Computing Society Open House, to be held on 21 March, will enable visitors to try their hand at working with a computer. The grant from the AMF will help them stage this event.

Conferences and Workshops

—"Practical Paper Conservation for Non-Conservators" sponsored by University Collections is a workshop aimed at instructing participants in how to perform conservational tasks, such as case storage, tear repair, dry-cleaning and many more such areas of concern.

—International Symposium on Romantic Drama, sponsored by the Department of Comparative Literature, will concentrate on the study of Romantic Drama in Europe and the Americas.

—University Council for Educational Administration Seminars, sponsored by the graduate students in the Department of Educational Administration, will see participants coming from all part of Canada and the US. With the aid of the AMF grant this seminar will be the first of its kind held in Canada.

The Arts

—The University of Alberta Concert Band, with the help of a grant, will bring their gift of music to a number of Alberta localities.

—University Collections, Alma Mater Art Acquisitions Fund received money to assist in the expansion of the University art collection.

Research and Teaching Assistance

—The Faculty of Dentistry will

begin developing a computerized dietary analysis for use in individual person evaluation and teaching within its Faculty and the Faculty of Home Economics.

—The Department of Industrial and Vocational Education will be able to purchase the necessary computer equipment for their pilot study into the utilization of microcomputers by severely handicapped adults.

—The Faculty of Education personnel will be able to continue their collection of historical information pertaining to the

history of Alberta's Normal Schools.

—The Department of Elementary Education Child Centre will construct a creative playground which will be used as a model for both undergraduate and graduate students to observe children in play.

—Faculty of Graduate Studies and Research students will receive some AMF travel assistance when invited to present papers at conferences.

Chaplains

—The Lutheran Campus Ministry

will be assisted in the production of an Anniversary Booklet. The 1981-82 academic year marks the 25th Anniversary of the Lutheran Campus Ministry at The University of Alberta.

Applications for Alma Mater Fund grants are still being accepted by The Office of Community Relations. Please call 432-2325 for further information. The next meeting of the AMF Allocations Committee will take place in May. □

Research Reporter

Drug May Control Herpes Virus

Medical science may have finally gained the upper hand in the battle with the herpes virus.

In recent years, penicillin-based therapy has been perfected for the more commonly sexually transmitted diseases and greater attention has accordingly come to be focused on the sexually transmitted disease, herpes genitalis, for which a satisfactory therapy has remained elusive. Numerous

therapies have been tried, but none proven.

It now appears, however, that antiviral drugs capable of controlling the disease are on the horizon. One of them is being tested at The University of Alberta under the direction of Lorne Tyrrell.

According to Dr. Tyrrell, in the past three or four years, drugs which show promise of being effective in controlling the herpes virus have been identified.

In the United States, the National Institute of Health has had experimental success with the drug known as adenine arabinoside; used in the treatment of herpes encephalitis, a brain infection caused by the cold sore virus. Adenine arabinoside has reduced the mortality rate from about 70 or 80 percent to about 25 or 30 percent. This drug has Canadian roots: Dr. Gerald LePage, Director of the McEachern Research Laboratory, was one of the original developers of adenine arabinoside. The drug was originally developed as an anti-cancer agent, but its antiviral properties led to its being tested against herpes with varied success. Adenine arabinoside is being marketed in North America as Vidarabine by the Parke-Davis Company.

Recently, the pharmaceutical firm Burroughs-Wellcome has

developed Acyclovir, a new drug which it hopes to market for herpes therapy. Acyclovir is currently being tested in Dr. Tyrrell's laboratory. The University of Alberta laboratory was chosen by the pharmaceutical firm on the basis of Dr. Tyrrell's experience as a virologist and the adequacy of his facilities.

Dr. Tyrrell explains that herpes infections are some of the most annoying to man. The herpes family has numerous members, including common cold sores—Herpes Type One—and the sexually transmitted disease—Herpes Type Two.

Herpes Type Two is the focus of the current testing. While this disease is serious enough in itself, it is also regarded as a possible cause of cancer of the cervix. And, in a small number of cases, mothers infected with Herpes Type Two may infect infants at birth, causing the condition herpes neonatum. Untreated, it is fatal in about one of two cases. The new antiviral agents have shows promise in treating this condition also.

Once an individual contracts a herpes infection, he has it for life. The virus gets in the nerve supplying the infected area, and there it stays. Most times it is inactive, but then it recurs periodically. Exactly what it is that determines whether the virus

is latent or active is not well understood, says Dr. Tyrrell. Indeed, the drugs now being tested will not eliminate the virus in the nerve, but will simply prevent or shorten recurrences.

The testing Dr. Tyrrell is doing involves oral therapy. Some of the American centres involved are testing the drug in the form of a topical ointment applied directly to the infected area. The patients with whom Dr. Tyrrell is working take five pills per day for the course of ten days. As a control, patients are divided into two groups; half are administered Acyclovir and the others are given a placebo. Preliminary results show the drug to be much more effective than the placebo.

Dr. Tyrrell is optimistic about the drug. In his words: "It offers a lot of hope for people who suffer from herpes."

French-Canadian Children's Literature Being Catalogued

A new course offering of the Department of Romance Languages at this University this year is French 390, a course of children's literature in French. The course, begun in January of this year, was introduced with the encouragement of the Faculty of

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All inquiries and correspondence should be directed to:

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The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons

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Education. It is primarily intended for the future teacher of elementary school French immersion classes.

The instructors for the course are Lynn Penrod and Allan Ballah. Dr. Penrod conducts the lectures; Professor Ballah supervises the laboratory work.

It was not long after they began preparations for the course, that the professors became aware of a significant difficulty facing the person teaching children in a French immersion program in English-speaking Canada: finding appropriate books for the children. The problem is not so much the obtaining of books, but rather the identifying of books which are suitable. Because most of the children are from homes where French is not commonly spoken, the difficulty is heightened—the child's ability in subject matter is often ahead of his ability in the French language. Finding a book appropriate to both is rarely easy.

To address the difficulty, Professors Penrod and Ballah have undertaken a joint research project aimed at the production of

an annotated bibliography of French-Canadian literature for children. Initially the project begun in December will be limited to material published since 1960. Even so, the professors expect to deal with some 300 to 500 titles.

Each listing is to include brief notes, an approximate grading, and a classification relating to age groups, interests, and so on. No such listing currently exists.

The professors are receiving a variety of assistance in their work project. They are working closely with Quebec publishers and cooperating with an Edmonton bookstore specializing in French publications. Much of the day-to-day research is being done by a graduate student employed for the project.

Their French 390 students are helping out as well. A large listing of books has now been amassed, and titles are being parcelled out to the students who are reviewing the publications as part of their course work. Some of the books are being tested in immersion classrooms, and a great deal of less formal testing is taking place

as well.

Funding for the project is provided by a Special Projects Grant from Alberta Advanced Education and Manpower and supplemented by research grants from the University and the Department of Romance Languages.

The professors plan an introduction to the finished catalogue. It will discuss briefly the history of French children's literature with particular emphasis on the classic children's stories and Canadian contributions. Significant among the latter are animal stories and fables.

Once the catalogue is complete,

its initial distribution will be to schools and the Faculty of Education. The professors expect valuable feedback from this first go-round, which will help them in future endeavors. They would eventually like to cover some of the literature prior to 1960 and can envision periodic updates which would be available by subscription.

While the catalogue is primarily intended for educators, its usefulness will likely not end there. For the English-speaking parent in search of a Christmas or birthday gift for a bilingual child, it should prove a godsend. □

Internship for School Teachers

A Proposal for Teacher Internship and A Teacher Competency Examination

Preamble

Professions and trades have for centuries required an internship or apprenticeship. Internship is not a requirement imposed by the training institution or by the public; it is an essential activity demanded by the association or guild that the novice wishes to enter. It is a period during which an advanced student gains supervised practical experience.

Proposal

It is proposed that candidates for a BEd degree from Alberta universities, and teachers with no teaching experience entering Alberta, be required to serve an internship of at least one year.

It is further proposed that, at the conclusion of the internship year, interns be required to write a "competency examination." This requirement would apply also to all teachers who may have had some teaching experience, but who are entering Alberta from elsewhere.

Features

1. *Location of Internship.* All Alberta school systems would be eligible to volunteer a school or several schools for the internship program. Schools

suggested would be inspected by a person or persons selected by the Board of Teacher Education and Certification to ensure that they are of suitable calibre for an internship program.

A list of suitable schools would be compiled and made available to prospective interns. Optionally, interns should be recruited in pairs by School Boards and the placement would be in the grade, subject of specialization, etc. However, recruitment may be of a single intern.

2. *Committee of the Board of Teacher Education and Certification.*

The Board of Teacher Education and Certification has the responsibility for all matters pertaining to teacher education. The internship would be under the purview of this Board and a Committee would be appointed by this Board, either from its members or from outside its membership but would be responsible to the Board which would act as the final appeal body in all matters pertaining to the internship.

The functions of the Committee would be to establish for the requirements of a cooperating school and a cooperating teacher, to ascertain the merits of schools



The University's version of the Woodchoppers' Ball took place last Friday, 13 March. Not for the superstitious, one of the activities was a log chopping contest.

and teachers nominated, and to develop, administer, mark, analyse, and report on the competency examination.

3. Administration.

The interns, as all other teachers on staff, would be under the charge of the principal and the local superintendent. The superintendent and principal would make arrangements for the interns to attend orientation seminars, workshops, and other activities as regular staff members.

4. Cooperating Teachers.

Each cooperating teacher would have charge of two interns and two classrooms. Each intern would have a minimum of two-thirds time in charge of a class of students.

Academic and experiential requirements, as well as outstanding teaching ability, would be set by the Committee of the Board of Teacher Education and Certification. Basically, the cooperating teacher would have one year of postgraduate study, three years' teaching experience, permanent certification and favorable recommendations from the principal and superintendent.

Cooperating teachers would receive a minimum of \$10 per day, or \$5 per day for each intern from the employing School Board.

5. Competency Examination.

The two-part competency examination would test the application of a teacher's knowledge of teaching methods, lesson planning, scheduling, educational administration, child psychology, code of ethics, standards of professional conduct, etc. as they relate to actual experiences in the internship. This may be in the form of a case study. The second part of the examination would be a test of literacy (English or French), and one specialization of the intern's choice. The test may be administered and marked locally but this is dependent on the rules of the Committee.

The competency examination would be administered to all interns at the completion of the internship and to all teachers entering Alberta who have had teaching experience outside

Alberta.

6. Implementation.

Upon completion of three-years of an Alberta BEd program which includes some practical teaching, an individual would be issued with an Intern teaching certificate to permit him to teach as an intern and would be a member of the Professional Association. The certificate may be upgraded to a permanent professional teaching certificate after the successful completion of a one-year internship (recommendation from the cooperating teacher and endorsed by the principal—the Superintendent would act as the first avenue of appeal) and a satisfactory performance in the competency examination.

A person with a teaching certificate from another province or from another country but with no teaching experience would be issued an Intern teaching certificate and follow the same steps as above.

An experienced teacher from another province or from another country with an acceptable teaching certificate would be required to write the competency examination and, if satisfactory, would be issued a permanent professional teaching certificate.

7. Phase-in.

Students now in the BEd program would graduate in 1984. These students may wish to intern after their third year. Students beginning the BEd program in September, 1981 would be required to intern. Students graduating with a BEd degree in 1981 may wish to intern in 1981.

Out-of-province teachers with no experience entering Alberta would be required to serve an internship in 1981-82 and write the competency examination. Experienced out-of-province teachers now entering Alberta would be required to write the competency examination.

8. Other Students.

Students graduating with degrees other than in education would be required to indicate that they have at least one-year of successful professional education, would be

issued with an Intern teaching certificate and would proceed as outlined above.

9. Cost.

The costs of the internship program would be borne by the individual School Boards but at no additional cost to their present budgets. School Boards would pay their interns a minimum of one-half year's salary on the

grid at third year level of education and no experience. The salary would be subject to the usual deductions as for all other teachers. The year of internship would count as a year of pensionable teaching service. □*

**Presented by the Hon. Dave King, Minister of Education, to the Board of Teacher Education and Certification on 4 February 1981.*

Faculty of Education Statement on Minister's Proposal

The Minister of Education has brought forward a proposal which addresses two issues: the first has direct bearing on the Faculty of Education's undergraduate program; the second concerns the beginning teacher's induction to teaching as a fully qualified professional. As a Faculty, we believe that:

1. To implement the Minister of Education's suggestions for change in the four-year BEd program would be deleterious to education in Alberta.
2. As means of strengthening the process of transition to independent professional status after completion of the BEd degree, the concept of internship offers potential and is worthy of careful consideration by the affected parties.

The quality of education in Alberta schools is dependent on many factors, not the least of which is the quality of the personnel at each school. Successful teaching is the result of a combination of several phases of professional growth including preservice education, orientation and beginning teacher experiences, and continuing educational opportunities. Although universities have primary responsibility in the realm of preservice preparation, and to a lesser extent continuing education, all phases of professional growth are of concern to Faculties of Education because of the interrelated nature of these experiences.

With respect to the formal educational experiences of

prospective teachers, the Faculty of Education at The University of Alberta reaffirms the following position:

1. That a four-year university degree, the BEd or its equivalent, is an essential precondition for certification and entry into the profession.
2. That a broadly based liberal education is an essential component of a BEd degree in that a teacher must be an educated person.
3. That the degree program should include a mixture of experiences and courses designed to provide entry-level professional skills based upon a theoretical educational foundation together with knowledge in subject matter fields.
4. That the various elements of the degree be integrated so as to provide prospective teachers an understanding and appreciation of the vital interrelationships among theory, research and practice.
5. That continuous monitoring of the impact of this type of preparation be conducted in order to provide the basis for program revisions designed to improve teacher education.

The Minister of Education by proposing the introduction of an internship and competence examinations as preconditions for certification has raised the timely and key issue of effective orientation to the profession of teaching. The Faculty of Education at The University of Alberta acknowledges the following viewpoints

with respect to these proposed policy decisions:

1. That a proper orientation to the profession is important for every new teacher and should be provided following the completion of the initial university degree experience. As with other professions, the first few years of teaching experience should enable the beginner to grow in professional competence.
2. That individuals should not be given responsibility, even supervised responsibility, for directing the classroom learning of students over extended time periods until a prior judgment has been made as to their suitability for the task. One of the purposes of the BEd degree, with its opportunities for limited field experiences, is to provide an initial screening of candidates for a career in teaching.
3. That the appropriateness of competence examinations requires

extensive and detailed investigation.

These views are offered in the interests of improving teacher education and the quality of classroom instruction. With these larger goals in mind the Faculty of Education also affirms the position:

1. That the determination of policy relative to the certification of teachers should be a result of a cooperative deliberative process in which the government, the universities, the Alberta Teachers' Association and the Alberta School Trustees' Association are involved.
2. That policy on quality teacher preparation should include all aspects of the professional growth of teachers: the preservice experience, orientation and induction to a teaching position, and continuing education.

At its meeting on 3 March 1981,

therefore, the Council of the Faculty of Education adopted the following resolutions:

1. The four year BEd degree (or its equivalent) continue to be the minimum requirement for entry into the profession.
2. The purpose of the BEd degree is not simply technical training but rather the preparation of an educated person.
3. If internship be required for certification, it should occur following the completion of the BEd degree.
4. Paper and pencil competence tests are inadequate means for assessing teacher competence.
5. The University of Alberta has sole responsibility for the quality and content of its degree programs, including the BEd degree which is currently, and should remain, a precondition for certification. □

service information

All material to be included under this rubric must reach the Office of Community Relations by 9 a.m. the Thursday before the desired issue of Folio is due to appear. Such information is published according to the dictates of space available. Thus, publication cannot be guaranteed.

Coming Events

Music

Jubilee Auditorium

26, 28 and 30 March. 8 p.m. Edmonton Opera presents "Cavalleria Rusticana" and "I Pagliacci." Tickets: Mike's, HUB and Opera Box Office.
27 March. 8 p.m. "Elvis-Elvis-Elvis." Tickets: Mike's, HUB, Eaton's, Bullwinkles and West Den.
29 March. 8 p.m. "Ronnie Prophet" in concert. Tickets: Mike's.
31 March. 8 p.m. "Andrew Culverwell." Tickets: Inside Story.

Department of Music Convocation Hall

20 March. 5 p.m. Heather Meyers, mezzo-soprano.
20 March. 8 p.m. Nancy Millions, mezzo-soprano.
21 March. 8 p.m. Walter Prossnitz, pianist.
22 March. 8 p.m. Robert Howey, clarinet.
23 March. 8:30 p.m. Dawn Hage, trumpet.
24 March. 5 p.m. Jan Mitchell, mezzo-soprano.
24 March. 8 p.m. William Bennet, flute. Admission charge. Tickets: at the door.
25 March. 5 p.m. Tami Cooper, flute.
25 March. 8 p.m. The University of Alberta Wind Ensemble.
26 March. 8:30 p.m. Joan Ringerwale, organ. Admission charge. Tickets: at the door.
These concerts are subject to change without notice. For verification of dates please contact the Department of Music at 432-3263.

Alberta College

International Concert Series

23 March. 8 p.m. Anore String Quartet. Robertson-Wesley United Church. For more information call 428-1851.

Letters

■ Permit me to point out an error which appeared in *Folio*, 5 March 1981. In the article entitled "A New Educational Magazine on Campus," you state that *Elements* is an "in house" journal (like *Folio*) aimed at the interest of University personnel."

Au contraire, *Elements* is "aimed at" elementary school classroom teachers and is dedicated to *Translating Theory Into Practice*. *Elements* is an indexed journal which has been published for the past twelve years by the Department of Elementary Education.

Willard F. Reese, Chairman
Elements Editorial Board.

■ Please be advised that the Alberta School Trustees' Association policy advocates *both* the implementation of an internship program for aspiring teachers *and* a minimum of four years of teacher education before certification. Accordingly, the Association supports that part of the Minister of Education's proposal

for teacher internship which proposes a full year's internship for aspiring teachers but will continue to advocate a minimum of four years of teacher education as a prerequisite to permanent certification. At the same time, we will continue to discuss with our membership the relative merits of the Minister's proposal with a view to formulating recommendations for his consideration.

I think it is also fair to say that the Trustees' Association is pleased that the Minister of

Education has called for a public discussion of the internship concept and deem it important to distinguish between a teacher practicum which is a part of teacher education and an internship which has more to do with induction into the profession. These two programs should not be seen as substituting for one another.

Larry Ferguson, Executive
Director, Alberta School
Trustees' Association

Attention Migraine Sufferers

Researchers at the University are again looking for adult migraine headache sufferers.

George Fitzsimmons, Department of Educational Psychology, and his research team are continuing to study new ways to prevent repeated migraine attacks. Migraine sufferers meet with a member of the team twice a week for four to six weeks to master

the self-help techniques. Follow-up occurs after one month and one year to monitor continued improvement.

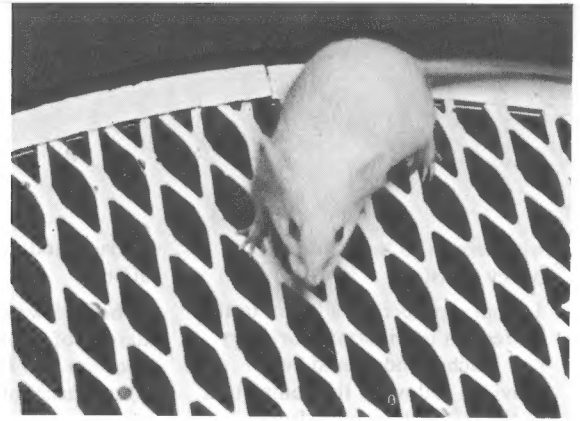
If you have at least one migraine a month you may be eligible to participate. The cost of the entire program is \$50. Volunteers may call 432-5241 before 31 March. □

April 1981

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monday
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20 ■ GFC Executive, 9 a.m.
■ To 4 May, final
examinations in Law

27 ■ GFC
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■ Final examinations
begin in Dentistry
■ Last day for submission of
unbound theses and Notices
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Studies and Research

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14 ■ Final examinations begin
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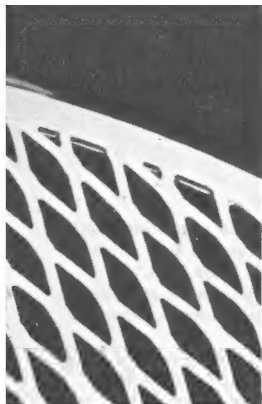
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Research Reporter

The University of Alberta has gained an enviable reputation over the last three quarters of a century for the research undertaken by its staff and students in almost every field of knowledge. All this research has an impact on the community at large and the reporting of that research is a vital link between our institution and the public. Research Reporter, a periodic bulletin aimed primarily at attracting the interest of commercial news media, explains complex research in such a way that its thrust can be readily understood by the layman. Stories from Research Reporter also appear regularly in Folio and Folio/New Trail. Why not help colleagues and the public keep abreast of new developments in your field? Please send short descriptions of your research activities to Rick Pilger, Research Reporter editor, Office of Community Relations, 423 Athabasca Hall. All reports are checked with those concerned before being printed.

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10[■] Board of Governors
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17[■] Good Friday—
University buildings closed

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Faculty Recital

30 March. 8 p.m. Dennis Prime, clarinet. Provincial Museum.

Edmonton Chamber Music Society

1 April. 8 p.m. The Stuttgart Piano Trio presents an all-Beethoven program. SUB Theatre. Admission by membership only. For more information call 439-6823.

Grant MacEwan Community College

25 March. 4:30 p.m. to 7:30 p.m. Big Band Jazz with "Big" Miller and Grant MacEwan Stage Band. Darlings, Four Seasons Hotel.

Provincial Museum

20 March. 8 p.m. The Common Women Bookshop presents Heather Bishop in concert. Tickets: at the door.
22 March. 2 p.m. Evansdale Community Hawaiian Dancers and Mount Royal Scottish Dancers.
29 March. 2 p.m. and 3 p.m. Balada Romanian Folk Ensemble.

SUB Theatre

19 March. 8 p.m. Robert Paquette in concert. Tickets: HUB, Mike's, Eaton's, Superclef Music.
28 and 29 March. 1 p.m., 4:30 p.m., 7:30 p.m. 30 March. 2 p.m., 5:30 p.m., 8 p.m. "Las Vegas Variety Revue." Tickets: Royal Canadian Legion Sales Office.
3 April. 8 p.m. Angele Arsenault in concert. Tickets: HUB, Mike's, Eatons, Superclef Music.

South Side Folk Club

21 March. 8 p.m. The South Side Folk Club Concert will feature Chris Caswell and Dan Carnahan from California with Bill Gourlie and Peter Wood of Edmonton. The Orange Hall, 104 Street and 84 Avenue. Tickets at HUB and Keen Kraft Music. Club information, 478-6417.

Shadows at Waldens

Until 28 March. Charlie Austin Trio.
30 March to 11 April. Fat Chants.

Edmonton Public Library

20 and 21 March. 8 p.m. Joanne Martineau and "Units" in concert. Tickets: HUB and Woodward's.

Edmonton Symphony Orchestra

"Master Series"
20 and 21 March. 8 p.m. Yuval Zaliouk, conductor, and Eugene Istomin, piano.
For ticket information for all ESO events, please call 439-2091.

St. Joseph's College

Monday evenings. 7 p.m. Gregorian chant choir. All welcome. St. Joseph's College Chapel. Telephone 433-1569.

Edmonton Philharmonic Society

This non-professional community orchestra has openings for strings, percussion, bassoons, oboe and tuba.

For further information please call Uri Kolet at 476-2092.

Films

SUB Theatre

20 March. 7 p.m. "My Body Guard" (1980). 9:30 p.m. "Breaking Away" (1979).
21 March. 7 p.m. "Breaking Away." 9:30 p.m. "My Body Guard."
22 March. 7 p.m. and 9:45 p.m. "A Clockwork Orange" (1971).
31 March. 7 p.m. "Gone With The Wind" (USA 1939).

Bergman Mini Series

18 March. 7:30 p.m. "Winter Light" (1962).
25 March. 7:30 p.m. "The Silence" (1963). This series is presented in conjunction with the U of A Chaplains' Association and a discussion will follow each film in the Theatre Lobby.

Department of Germanic Languages

1 April. 19:30. "Winterspelt" (1977/78). Eintritt frei. 17 Arts Building.

Edmonton Film Society

SUB Theatre
23 March. 8 p.m. "Wise Blood" (1980).

National Film Theatre

20 March. 7:30 p.m. and 9:20 p.m. The Best of the 1980 Cannes Festival Commercials.
25 March. 7:30 p.m. "Die Bittere Tranen der Petra Von Kant/The Bitter Tears of Petra Von Kant" (Germany 1972). 9:30 p.m. "Eraserhead" (USA 1977).
26 March. 7:30 p.m. "Eraserhead." 9 p.m. "The Bitter Tears of Petra Von Kant."
27 March. 7:30 p.m. The Best of the 1980 Cannes Festival Commercials. 9:20 p.m. "Eraserhead."

Provincial Museum

21 March. 2 p.m. "Year's at the Spring," "Mar.-Apr.: The Coming of Spring," "World Garden," "Gardens of Britain."
21 March. 8 p.m. Audubon Wildlife Films presents "Wilderness Trails" with speaker C.T. Hotchkiss. Tickets: at the door.
22 March. 4 p.m. and 7 p.m. "Grizzly."
28 March. 2 p.m. "The Changing Forest," "The Tree," "Prairie Spring."
29 March. 4 p.m. and 7 p.m. "Carpathian Tales," "Bucharest," "Pastorale," "The Lads Reel," "Sinaia."
30 March. 2 p.m. "The Muppet Movie."
31 March. 2 p.m. "Charlotte's Web."

Edmonton Public Library

Centennial Library Theatre
21 March. 10:30 a.m. "Children's Cinema" will be presented by the Audio-Visual Division. Admission free.
23 March. 12 noon. "Brown Bag Cinema" will be presented by the Audio-Visual Division. Admission free.

"Couples" series

21 and 22 March. 2 p.m. "Top Hat" (1935).
28 and 29 March. 2 p.m. "The Taming of the Shrew" (1967).

Ciné-club francophone pour adultes

29 mars. 19h.30. "Martial Carron: du mauvais côté de la clôture," "Le Chant d'endurance." Une programmation présentée par l'Office national du film et la Faculté Saint-Jean. L'auditorium de la Faculté Saint-Jean, 8406 91e rue.

Jubilee Auditorium

19 March. 6 p.m. and 9 p.m. Travel film "Hong Kong and Macao." Tickets: Bass.

National Film Board of Canada

Daily. 12 noon and 1 p.m. A varied program of films will be offered, giving the general public the chance to see new and old films. On Mondays, Wednesdays and Fridays the films will be in English, and on Tuesdays and Thursdays in French. Programs will be available at the door and admission is free. For further information please call 420-4010.

Theatre

Studio Theatre

Until 5 April. "Old Times" by Harold Pinter. For ticket information and show times please call 432-2495.

Citadel Theatre

Shoctor Stage

18 March to 12 April. "Grease" in co-production with the Manitoba Theatre Centre.

Rice Stage

24 March to 12 April. "The Hollow Crown" by John Barton. Theatre Box Office: 425-1820.

Theatre Network

Until 22 March. "Eternally Yours" by Tanya Ryga and Philip Kuntz. Tickets: Bass. Theatre Network. Telephone 474-6111.

Théâtre français d'Edmonton

20 à 22 mars. 20h.00. "Bernadette et Juliette/ou la vie, c'est comme la vaisselle, c'est toujours à recommencer." L'auditorium de la Faculté Saint-Jean. Téléphone 469-0829.

Exhibitions

Provincial Museum

Until 31 March. "Ukrainian Religious Architecture." An exhibition of black and white photographs by Orest Semchishen. Orientation Gallery.
Until 30 March. "Minerals, Metals and Man." A travelling exhibition produced by the National Museum of Natural Sciences, showing man's use of minerals. Feature Gallery #3.
Until 20 April. "Thank You," a new, permanent exhibit that will feature

recent, unusual and interesting acquisitions of the Museum. East Alcove. *Through March.* "The Inuit." Eskimo artifacts from the collection of the Provincial Museum. Ethnology Feature Gallery.

Continuing. "The Herbarium of Louis XIV." An exhibition of fifty 17th century copperplate etchings from the Musée du Louvre. Auditorium Foyer. *Continuing.* "Bears of Canada." An exhibition featuring black, grizzly and polar bears. East Alcove. (A series of lectures and films will accompany the exhibit. See lectures and films columns). *Continuing.* "Nag Hammandi" a collection of thirteen papyrus codices found in 1945 near the Nile. Human History Gallery.

Edmonton Public Library

Foyer Gallery

Until 31 March. "I'm Talking to You and Other Works," an exhibition of paintings by Edmonton artist David Vereschagin.

Photography Gallery

Until 31 March. "Bits and Pieces of Dominance" photo sequences by Dennis Wall.

University Special Collections

"Aspects of Quebec: 1618-1975." This new display can be seen in B37 Cameron Library. The hours are Monday to Thursday 8:30 a.m. to 6 p.m., Friday 8:30 a.m. to 5 p.m. and Saturday 12 noon to 5 p.m.

Students' Union Art Gallery

20 March to 2 April. BFA Exhibition. Opening reception 19 March, 8 p.m.

Ring House Gallery

Until 22 March. "Rhythms and Reflections: contemporary tapestries by Carla Costuros" an exhibition of weaving.
Until 12 April. "Anne Savage: Her Expression of Beauty." An exhibition of works by the Montreal landscape painter.
26 March to 1 9April. "A Growing Collections: The Department of Zoology." An exhibition of natural history specimens from the Department's research collection. Opening reception 26 March, 8 p.m.

Latitude 53 Society of Artists

Until 5 April. Photography by Christopher Rainer. 9749 111 Street.

Multicultural Heritage Centre

Until 5 April. "Clay and Cloth," an exhibition featuring pottery by Sam Uhlick, and quilting by Judy Villett. *Settlers' Cabin* a "living museum" of pioneer and ethnic crafts. *Handicraft Store* features work by local artisans. *Library and Archives* with pioneer photographs, tapes and maps. *Homesteaders' Kitchen* serves lunch daily (except Mondays) noon to 2 p.m., coffee and dessert 2 p.m. to 4 p.m., and dinner Thursday evening from 5:30 p.m. to 7 p.m.

The Heritage Centre is located at 5411 51 Street, Stony Plain. Telephone: 963-2777.

Edmonton Art Club

2 to 16 April. Spring Art Exhibition at the Edmonton Art Gallery.

Shadows at Waldens

Until 28 March. An exhibition of photographs by Alice Rondez Bauman.

Rutherford House

The restored home of Alberta's first Premier is open to visitors Monday to Friday 9 a.m. to 5 p.m., Saturday and Sunday 12 noon to 6 p.m. Group tours may be arranged by calling 427-5708 at least one week in advance.

Alberta Natural Resources Science Centre

The Centre consists of six permanent pavilions with displays that describe and interpret how Alberta's natural resources are put to use. Opening hours are Saturdays and Sundays from 11 a.m. to 5 p.m. School tours are available Monday to Friday. Admission and parking are free. The Centre is located east of Edmonton at the new Strathcona Science Park. For further information and bookings phone 427-9490.

Lectures and Seminars

Zoology Visiting Professors Program

H.A. Bern, University of California, Berkeley, will present the following lectures in CW410 Biological Sciences Building.

19 March. 12 noon. "The caudal neurosecretory system of fishes: the beginnings of 'Urophysiology'."

20 March. 12 noon. "Of mice and humans: the neonatal mouse model for diethylstilbestrol-exposed human offspring."

23 March. 3 p.m. "Prolactin endocrinology."

Lecture Series by A.Z. Kaminski

The following lectures will be presented by A.Z. Kaminski, University of Warsaw and Visiting Professor of Sociology, University of British Columbia.

Department of Sociology and Department of Political Science

19 March. 12 noon. "Monopoly and Competition as Problems in the Sociology of Power." 14-6 Tory Building, followed by no-host lunch in Faculty Club. Reservations 432-5234.

Division of East European Studies
20 March. 11 a.m. "State Bureaucracy and Parliamentary Democracy in Liberal-Democratic and Leninist Political Doctrines: A Comparative Perspective." 311 Athabasca Hall.

Polish Culture Society

20 March. 12:15 p.m. Lunch, followed by "Kulisy Wypadkow Sierpniowych i

Posierpniowych (1980) w Polsce (Behind the Scene of the August and Post-August Events in Poland)." Faculty Club. Reservations: J. Matejko, 435-0449 (evenings).

21 March. 7:45 p.m. "Zmiana Przywództwa jako Mechanizm Ekonomicznej i Politycznej Adaptacji w Socjalistycznej Polsce (Change of Leadership as a Mechanism of Economic and Political Adaptation in Socialist Poland)." Polish Hall.

Department of Biochemistry

19 March. 4 p.m. J.F. Scott, UCLA will discuss "Aspects of the Enzymology of Duplex DNA Replication in *E. coli* and in Yeast." 227 Medical Sciences Building.

Theological Reflections

19 March. 8 p.m. "Ecumenism: The Catholic-Lutheran Dimension" by M. McSorley, St. Michael's College, Toronto. TL-12 Building. Co-sponsored by Catholic Chaplains, U of A and the Knights of Columbus.

Guild for Mediaeval and Renaissance Studies

19 March. 8 p.m. "San Giovanni di Ruoti—The Mediaeval Features of the Structures Excavated by University of Alberta Archaeologists," with A.M. Small of the Department of Classics. 2-58 Tory Building.

Department of Sociology Group in Sociological Methodology

20 March. 2 p.m. Ilze Hobin will speak about "Statistical Materials Available Through the PRL."

27 March. 2 p.m. "Some Sociological Applications of Statistical Decision Functions" will be discussed by P. Krishnan. TB-36 Tory Building.

Department of Physics

20 March. 2 p.m. H. Suhl, University of California, will present a seminar entitled "Escape of Particles Over a Dynamic Barrier: A Failure of Brownian Motion Theory. V125 Physics Building.

Department of Art and Design

20 March. 2:30 p.m. Slide presentation: Bruce Bentz (Industrial Design) will present and discuss his own work. 2-20 Fine Arts Building.

Department of Zoology

20 March. 3 p.m. R. Warner, University of California, will present "Behavioral and life historical responses to sexual selection in coral reef fish."

27 March. 3 p.m. S. Lewis, Yale University, will discuss "Mechanisms of epithelial fluid transport." Co-sponsored by the Department of Physiology.

345 Agriculture Building. Refreshments to follow in CW-410 Biosciences at 4 p.m.

Commission on University Purpose
The Senate's Commission on University

Purpose will hold the following public meetings in Edmonton in the hopes of gaining a wide cross-section of public views about universities.

22 March. 2 p.m. Paul Kane House, 10220 121 Street.

24 March. 7 p.m. Library, Kameyosek Community School, 250 Lakewood Road East, Mill Woods.

Department of Computing Science

23 March. 7:30 p.m. S. Zweben, Ohio State University will present a seminar entitled "An Approach to Computer Program Testing." 617 General Services Building.

Group in Oriental and African Languages and Area Studies (GOALAS)

24 March. 3 p.m. "Religion and Politics in Sri Lanka" by P.A. Saram. 5-15 Tory Building. Co-sponsored by the Department of History and Sociology.

Division of East European Studies

24 March. 3:30 p.m. E. Mozejko will discuss "Socialist Realism: Genesis, Evolution, Decline." 311 Athabasca Hall.

Technocracy Inc.

24 March. 8 p.m. W. Fryers will present "Inflation—Why we have it and what we can do about it." Rocking Chair Lounge, HUB Mall.

Faculty of Library Science

24 March. 8:30 p.m. "Participatory Management: myth and reality" discussed by R. Vainstein, University of Michigan. Saskatchewan Room, Faculty Club.

Forestry Seminar

25 March. 12 noon. "Secondary Succession in Northern Rocky Mountain Forests Following Wildfire" by P. Stickney, US Forest Service. EM 3-1 Mechanical Engineering Building.

Department of Botany

25 March. 4 p.m. D. Fisher, Washington State University, will discuss "Phloem transport mechanism, and recent applications of stylet technique." 1 April. 4 p.m. J. Marowitch will present "Temperature effects on translocation in *Phaseolus vulgaris* L." Coffee at 3:30 p.m. M-149 Biological Sciences Building.

St. Joseph's College

Newman Centre

Understanding Catholicism

25 March. 7 p.m. "Conversion and Reconciliation" with Father J. Madden. For further information please call 433-2275.

Provincial Museum

"Of Bears and Men" Lecture Series
25 March. 8 p.m. R. Russell, Canadian Wildlife Service, speaks on Grizzly Bears.

SUB Art Gallery

26 March. 12:30 p.m. Dr. Braun and K. Lewis will read their own poetry.

Department of Secondary Education

26 March. 3 p.m. W.F. Pinar, University of Rochester will speak on "The Auto-biographic Approach to Curriculum Research." 116 Education South.

27 March. 10 a.m. A public lecture by W.F. Pinar on "Curriculum Reconceptualizing" will be presented in 2-115 Education North.

Department of Classics

26 March. 4 p.m. J.R. Wilson will speak on "Traditional Values in Thucydides, part II: 'Philia'." 1-8 Humanities Centre.

Biological Research Discussion Group

26 March. 4 p.m. W. Wickner, UCLA, will present a seminar entitled "Synthesis of an Integral Membrane Protein from a soluble Cytoplasmic Precursor: M13 Procoat and the Membrane Trigger Hypothesis." 227 Medical Sciences Building.
1 April. 4 p.m. "Cryoenzymology of Penicillinase" will be discussed by T. Fink, UCLA. 4-70 Medical Sciences Building.

Department of Entomology

26 March. 4:30 p.m. "Siphona (Diptera: Tachinidae). Systematics revisited."

Department of Entomology

2 April. 4:30 p.m. D. Currie will discuss "Factors influencing the distribution of Nearctic *Gymnopais* (Diptera: Simuliidae)." Coffee at 4 p.m. 62 Athabasca Hall Annex.

Alliance française

26 March. 7:30 p.m. "Un voyage à travers la peinture," a talk with slides by C. Verdier, Paris. Faculté Saint-Jean.

Cross Cancer Institute

27 March. A symposium on "Bronchial Carcinoma" with guest speakers H.H. Leveen, Charlestown, SC, and D. Seaman, Rochester, NY. Further details and registration from The Division of Continuing Medical Education, 12-103 Clinical Sciences Building.

The Association for Bright Children

30 March. 7:30 p.m. The monthly meeting will take place in Mee-Yah-Noh School, 9921 128A Avenue. For more information please call 454-8796.

Faculty Forum

1 April. 6:30 p.m. Faculty Forum Dinner with guest speaker P. Craigie, University of Calgary. The topic is "EBLA: The Rediscovery of Ebla in the Old Testament." Dinner reservations are required and are available through the Chaplains' Offices. 432-4513.

Students International Meditation Society

Wednesdays. 12 noon. Introductory lectures on the Transcendental Meditation program. Everyone welcome. 280 SUB.

Alcoholics Anonymous

8 p.m. Monday evenings. St. Joseph's College.

Radio and Television

Department of Radio and TV

21 March. 7 p.m. University concert Hall: Recital by the Faculty of Music.
23 March. 7 p.m. Legal Maze: Welfare Law.
24 March. 7 p.m. Epicycle: The Sacred and the Creative Imagination.
25 March. 7 p.m. Voiceprint: The Printed Word: Its History and Craft Today.
All programs on CKUA Radio (580AM/95FM).

CBC Stereo "Ideas" Series

Between Two Ages

23 March. "Feminism and the End of Patriarchy."

30 March. "A new Heaven and a New Earth."

The Political Economy of Energy
17 March. "Nuclear Power: Safety Is Not the Only Issue."

24 March. "The Alternative: Conservation and the Renewables."
31 March. "The Political Economy of Energy."

Notes on a New World:

Diplomacy and Strategy in the 1980s
25 March. "The Mechanics of Diplomacy."

1 April. "The 1980s: Living with Uncertainty."

The High Cost of Working:

Occupational Health in the '80s

19 March. "Who is to Blame?"

26 March. "The Balance Sheet"

2 April. "Stress Cause and Effects"

All programs begin at 8:04 p.m.

ACCESS Alberta

25 March. 8:30 p.m. "Safer Than a Sock," the story of a man who can't read too well. CITV Channel 13.

Sports

Alberta GO Tournament

Edmonton will host the 1981 Open on 21 and 22 March at the Southwest Cultural Centre, 11507 74 Avenue. Entry fee: \$10 for Dan players and \$8 for all others. Deadline was 18 March. For more information contact Wes Cooper, 432-4103, or Marion Nicely 433-1566 (evenings).

Non-Credit Courses

Faculty of Extension

Advanced Workshops in Teaching

Date: 28 March. (Oral Activities); 11 April (Conversation); 25 April Recognizing and Correcting Errors);

9 May (Beginning ESL Students).
Time: 9 a.m. to 12 noon. *Fee:* \$15 per workshop. *Class limit:* 25.
Telephone: 432-2497, 432-3036.

Treasures of Ancient Nigeria: Legacy of 2,000 Years

Date: 2 and 3 April. On 2 April A. Nitecki, Glenbow Museum, will lecture on Nigerian art. On 3 April participants will go by bus to Calgary to see the exhibit and attend a special lecture. *Class limit:* 29. *Fee:* \$45.
Telephone: 432-5061, 432-5532.

Effective Selling Skills

Date: 2 April for 10 Thursdays.
Time: 6:30 p.m. to 9:30 p.m. *Fee:* \$175 inclusive of materials. *Telephone:* 432-5066/7.

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. For further information, please telephone Information Services at 432-2463 or come to 319 General Services Building.

Introduction to Computing

Course number: 259. *Date:* 25 March.
Time: 10 a.m. to 12 noon. *Fee:* \$5.
Place: 351 GSB.

Efficient File Editing

Course number: 376. *Date:* 24, 26 March. *Time:* 12 noon to 2 p.m.
Fee: \$10. *Prerequisites:* "MTS and Editor Fundamentals" course and a good working knowledge of the File Editor. *Place:* 327 GSB.

Introduction to Text Formatting

Course number: 307. *Date:* 31 March; 2, 7, 9 April. *Time:* 10 a.m. to 12 noon.
Fee: \$15. *Prerequisites:* "MTS and Editor Fundamentals" course and a good working knowledge of the File Editor. *Place:* 328 GSB.

MTS Overview

Course number: 396. *Date:* 25, 27 March. *Time:* 11 a.m. to 1 p.m. *Fee:* \$10. *Prerequisites:* "MTS and Editor Fundamentals" course. *Place:* 328 GSB.

Faculty of Dentistry

Division of Continuing Education

The following courses will take place during the months of March and April.
28 March. Removable prosthodontics (Didactic) Part II.

4 April. (Medicine Hat). Dental office emergencies and their management.
11 April. Temporomandibular joint syndrome.

18 April. (Red Deer). Dental office emergencies and their management. For more information, please call 432-5023.

YMCA of Edmonton

Lifestyle Programs

All workshops will take place from 9 a.m. to 4 p.m. in the Vimy Room, Montgomery Legion, 10030 103 Avenue.

Living and Dealing with Stress

Date: 21 and 22 March. *Fee:* \$125.

For further information on these programs call 452-8340.

Occupational Health and Safety Division

Care Care Seminar for Consumers

Date: 22 March. *Time:* 1 p.m. to 5 p.m. *Location:* Grant MacEwan Millwoods Campus, 7319 29 Avenue.
Telephone: 462-5550.

Devonian Botanic Garden

Classes in gardening maintenance, alpine gardening and show gardens beginning in May for a nominal fee. Also, waterbird watching sessions in April and May. For registration and information please call 987-3054.

Yoga Association of Alberta

Classes and workshops are offered in every part of the city. For more information please call 484-7594.

Notices

Parler Français before the Summer

For the fourth year in a row, a very intensive French immersion program for professionals has been organized at Faculté Saint-Jean. A maximum of twelve students will be accepted on a first-come, first-served basis for this three week course beginning on 4 May.

The fifty graduates of this course achieved a high level of fluency and many went on to spend their summer in various francophone regions of the world.

Two professors will work on the individual difficulties of each student in order to keep the class moving along quickly. Classes run from 9 a.m. to 2:30 p.m. five days a week. The course costs \$150 and inquiries should be directed to Liliane MacCallum at 466-2196, extension 58.

University/Community

Special Projects

The Advisory Committee for the University/Community Special Projects Fund will be accepting proposals for consideration under the Fund.

The Fund has been established to provide grants-in-aid to projects of special significance to this region of Canada or of some particular significance to this University. Without limiting the scope of the fund the primary uses will be for such projects as the purchase of works of art of particular significance to the area, the purchase of items of special geographic or subject interest, support of publications of significance to this region of Canada, the conservation of important collections in the University, and the underwriting of special exhibitions or other projects to increase

public awareness of collections in the University.

Projects will be either of a capital nature or limited to a two-year operating period. Preference will be given to projects and activities that cannot in practice be funded by other means.

Project proposals should be accompanied by a detailed budget. Applicants are encouraged to seek the support of departments or other related units within the University in submitting proposals.

The deadline for submissions in each year will be the 15th of January, April and September. Proposals should be sent to: Dr. Amy Zelmer, Chairman, University/Community Special Projects Committee, 3-4 University Hall.

New Staff Removal Allowances

From time to time we have seen examples of new staff coming to the University from outside Edmonton being considerably inconvenienced by the late arrival of their household furnishings, or temporarily embarrassed by moving companies demanding immediate payment of an amount considerably in excess of the estimated costs.

While it is not our intention to promote the services of any particular moving company, we have been advised by Hill Security Van Lines that they are prepared to guarantee a delivery date and a cost to be within 10 percent of the estimate. Hill will have to pay the cost of any additional living and incidental expenses if they fail to meet their delivery date and absorb any costs in excess of 110 percent of the estimate. Accordingly, it may be to the advantage of new staff to at least discuss with the Hill people their move to Edmonton. Hill's local representative, Mr. T. Hrysak, telephone number 467-4144, has asked that he be advised of the names and address of anyone wishing to pursue this matter.

General Security on Campus

With springtime rapidly approaching and the use of bicycles being more common on campus, it is urged that bicycle owners pay particular attention to the security of their bikes when being parked on campus.

A good strong lock should be utilized to secure the bicycle and efforts made not to have the bicycle parked for any undue length of time without frequent checking.

Members of the campus community are reminded that Campus Security will engrave and register bicycles with the City of Edmonton Loss Prevention Program at no charge. All that is necessary is to contact Campus Security to arrange to have this done.

A further concern is evident and that is the ongoing theft of wallets and purses that are left unattended in offices even for a short period of time. Members of the campus community are reminded that when offices

are left unlocked and valuables are left therein, there is always the possibility of theft.

Any suspicious activities in the buildings should be reported to Campus Security at 432-5252 in order that the matter may be followed up.

US Taxpayer Assistance

A US Internal Revenue Service Representative, Julia Kemp, will be in Calgary from 25 March to 23 April, to answer questions regarding US Income Tax matters. She will be at the United States Consulate General, Room 1050, 615 Macleod Trail S.E. Office hours are 9 a.m. to 12 noon and 1:30 p.m. to 3:30 p.m., Monday to Friday, except on American and Canadian holidays. The telephone number is 266-8962.

Julia Kemp will also be in Edmonton from 27 April to 7 May at the Chateau Lacombe and will be available for consultations only from 8:30 a.m. to 12 noon and from 1:30 p.m. to 4 p.m., Monday to Friday. The telephone number will be 428-6611.

US citizens are reminded that even though they are in a foreign country their Federal income tax filing requirements are generally the same as for US citizens residing in the United States.

CIDA

The 1981 CIDA (Canadian International Development Agency) Guide for Overseas Project Submissions is now available. Copies may be obtained directly from CIDA, (NGO Division), 200 Promenade du Portage, Hull, PQ K1A 0G4, or on loan from the Chairman, International Affairs Advisory Committee, 3-4 University Hall.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

Wanted: large screen oscilloscope (8x10 viewing area) HP143 or similar. Single or dual trace. For further information please call Ernst Buehler at 432-4251.

Positions Vacant

Data Entry Operator

A data entry operator is required to enter, update and process medical genetics records using SPIRES. The position may involve some Textform work also. For more information telephone Catherine or Brenda at 432-6378.

Administrative/Professional Officer, Examinations and Timetabling Division, Office of the Registrar

The Office of the Registrar invites applications for the position of Timetable, Examinations and Calendar Analyst. The incumbent is responsible for the design and maintenance of information processing systems for collecting, recording, processing and producing information related to the production of calendars, sessional timetables, examination schedules and the allocation of centrally scheduled classroom space.

Using tools of systems analysis, the incumbent examines present methods and suggests changes in such areas as system design, workflow, priorities, system hardware and software, staffing, etc. There is considerable scope for the exercise of initiative and imagination.

Qualifications preferred are a University degree and some administrative experience. The ability to write GIS programs would be an asset but candidates with a sufficient knowledge of computer systems that would permit them acquiring GIS programming skills are encouraged to apply.

The salary range for this APO position begins at \$19,040. Actual starting salary within the range will be commensurate with qualifications and experience.

Interested persons should submit résumés to: Dr. W.A. Blanchard, Registrar, Office of the Registrar, 201 Administration Building, The University of Alberta, Edmonton, Alberta, T6G 2M7. The University of Alberta is an equal opportunity employer.

Programmer/Analyst

A Programmer/Analyst is required by the Cardiac Care Evaluation Project to aid in the design and implementation of a computerized cardiac care registry. The Programmer/Analyst will be involved in the design of input and output documents according to user specifications, programming in MTS and different data base management systems, and the documentation of system applications. The incumbent will work closely with the Department of Computing Services as well as with personnel from participating hospitals involved in the delivery of cardiac care.

The successful applicant will have a BSc or equivalent, in Computing Science and a minimum of two years' experience. The University of Alberta offers competitive salaries and a comprehensive employee benefits package.

Interested persons please call 432-5201 for an application form or apply in person to Personnel Services and Staff Relations, 3rd Floor, Students' Union Building, 114 Street and 89 Avenue, Edmonton T6G 2J7.

The University is an equal opportunity employer.

Research Assistant

Required for a two-year study to determine incidence, prevalence, and survival of patterns of inflammatory bowel disease in Alberta. A data base would be developed and preliminary information would be sought on etiological factors with the view to enhancing the clinical research program.

The individual would test and modify the data collection forms; establish techniques for tracing patients; develop follow-up techniques; work in conjunction with programmer; and maintain liaisons with outside agencies.

Please apply to the Division of Gastroenterology. For further information: Alan B.R. Thomson, 8-104B Clinical Sciences Building, The University of Alberta, Edmonton, Alberta T6G 2G3, 432-6284.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 13 March 1981.

Sales Clerk (\$830.15-\$893.47)—Bookstore
Clerk Typist II (\$830.15-\$991.42)—
Personnel Services and Staff Relations; Zoology; Housing and Food Services; Computing Services
Clerk Steno II (\$861.22-\$1,030.83)—
Economics; Educational Foundations, Athletic Services; Mechanical Engineering
Senior Clerk (\$893.47-\$1,069.05)—
Office of the Registrar
Library Clerk III (\$893.47-\$1,069.05)—
Faculté Saint-Jean
Senior Financial Records Clerk (\$922.12-\$1,109.66)—Housing and Food Services
Clerk Typist III (\$922.13-\$1,109.66)—
Soil Science; Purchasing (2 positions); Department of Medicine; Civil Engineering
Student Record Processing Clerk (\$959.16-\$1,157.44)—Education—
Student Records Office
Clerk Steno III (\$479.58-\$578.72)—
Secretariat (Part-time)
Clerk Steno III (\$959.16-\$1,157.44)—
Faculty of Medicine; Health Services Administration; Computing Science; Mineral Engineering; Legal Resource Centre; Industrial and Vocational Education; Research Grants and Contracts Office
Admission Records Trainee (\$959.16-\$1,205.22)—Office of the Registrar
Medical Steno (\$1,030.83-\$1,257.77)—
Pediatrics
Storeman II (\$1,030.83-\$1,257.77)—
Introductory Biology Program
Secretary (\$1,069.05-\$1,309.14)—
Pediatrics; Pharmacology (2 dys week —\$427.62-\$523.66)
Administrative Clerk (\$1,069.05-\$1,309.14)—Nursing
Publications Assistant II (\$1,205.22-\$1,484.71)—Computing Services
Storeman I (\$893.47-\$1,069.05)—Bookstore

Laboratory Assistant III (\$959.16-\$1,157.44)—Provincial Laboratory
Building Services Worker II (\$959.14-\$1,157.44)—Housing and Food Services (day shift); Physical Plant (Building Services)
Food Services Worker III (\$1,030.83-\$1,257.77)—Housing and Food Services
Building Services Worker III (\$1,069.05-\$1,309.14)—Physical Plant (Building Services)
Technician I (\$1,069.05-\$1,309.14)—
Provincial Laboratory; Computing Services
Biology Technician I (\$1,069.05-\$1,309.14)—Introductory Biology Program
Farm Technician I (\$1,069.05-\$1,309.14)—Animal Science
Curriculum Technician I (\$1,069.05-\$1,309.14)—Audiovisual Media Centre
Audiovisual Technician I (\$1,069.05-\$1,309.14)—Audiovisual Media Centre
Civil Engineering Technician I (\$1,069.05-\$1,309.14)—Civil Engineering
Technician I/Technologist I (\$1,069.05-\$1,484.14)—Pharmacology (Trust-Term)
Technician I/II (\$1,069.05-\$1,484.74)—
Mineral Engineering (Trust)
Building Services Worker III (\$1,069.05-\$1,484.74)—Housing and Food Services
Draftsman I (\$1,109.66-\$1,365.29)—
Design and Construction
Engineering Technologist I (\$1,157.44-\$1,423.81)—Physical Plant (Energy Management) (Term)
Maintenance Worker I (\$1,157.44-\$1,423.81)—Physical Plant (Building Services); Physical Plant (Grounds)
Engineering Technologist I (\$1,157.44-\$1,423.81)—Physical Plant
Laboratory Technologist I (\$1,205.22-\$1,484.74)—Provincial Laboratory (2 positions)
Biochemistry Technician II (\$1,205.22-\$1,484.74)—Biochemistry (Trust)
Chemical Technician II (\$1,205.22-\$1,484.74)—Animal Science (Trust)
Technician II (\$1,205.22-\$1,484.74)—
Pathology
Technician II (\$1,205.22-\$1,484.74)—
Pharmacology (Trust)
Chemical Technologist I (\$1,205.22-\$1,484.74)—Home Economics
Biochemical Technologist I (\$1,205.22-\$1,484.74)—Surgery (Trust-Term to July '81)
Electronics Technician II/III (\$1,309.14-\$1,843.07)—Physics
Technologist II (\$1,365.14-\$1,690.17)—
Zoology
Chemical Technologist II/III (\$1,365.14-\$1,924.31)—Mineral Engineering
Photographer IV (\$1,365.29-\$1,690.17)—
Pathology
Engineering Technologist III (\$1,484.74-\$1,843.07)—Design and Construction
Programmer/Analyst II (\$1,484.74-\$1,843.07)—Office of the Registrar; Office of Administrative Systems
Electronics Technician III (\$1,484.74-\$1,843.07)—Psychology; Biomedical Engineering
Information Coordinator (\$1,690.12-\$2,101.02)—Cardiology (Calgary)

Electronics Technician IV (\$1,690.12-\$2,101.02)—Physics
 Programmer/Analyst III (\$1,763.03-\$2,195.45)—Computing Services (2 positions); Cardiac Care Evaluation (Trsut)
 Programmer/Analyst IV (\$2,101.07-\$2,629.04)—Office of Administrative Systems
 Controlsfitter (\$2,312.27/month)—Physical Plant (Maintenance)

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an alteration is made.

Accommodations available

Golfer's Paradise—Hanalei Bay, Kauai. Three bedroom townhouse near golf course, beach, pool. Free shuttle service. Rates for 2, 4 or 6 people, and over two weeks. Phone 469-7649.
 For rent—Three bedroom, furnished home. Westmount area. Available 1 August. Phone 455-8411.
 For rent—Garneau. One bedroom, furnished apartment. May to August 1981. Phone res. 433-0922, bus. 432-4619.
 For sale—Aspen Gardens. Excellent location. Four level Perry split, main floor family room with fireplace. Double heated garage. Priced at \$139,500. Call Prim Spidell, bus. 436-3050, 436-2450 Potter Realty.
 For sale—Blue Quill. 2,854 sq. ft., two storey. Excellent location, immaculate, contemporary design. Mature, private garden. Large cedar deck. Price \$245,000. Maureen Westlake 434-6958, Denise Rout 432-7398, Spencer Real Estate 436-5250.
 For rent—1 May - 15 Sept. Three bedroom furnished house, St. Albert. 459-6102.
 For rent—Executive, five bedroom, two storey home, 3½ baths, sauna, ravine location. No pets, references. June 1981-June 1982. 487-5273 after 4 p.m.
 For rent—Clareview. New, three bedroom condominium. Available 1 May. \$450 monthly, \$300 D.D. 476-7109 after 6 p.m.
 Apartment for sublet—May-August (approximately), large one bedroom, furnished (flexible), close to campus. Hurlbut 432-4191 bus, 439-1001 res.
 For rent—Blue Quill. Three bedroom townhouse. 1½ baths, carpeted, parking. Buses to University, Southgate, downtown. 434-7850.
 For rent—Greenfield. Three bedroom, furnished house. July 1981-July 1982. \$650 monthly. 435-5488.
 For sale—Parkallen. Professor's dream.

Newly renovated semi-bungalow, with rumpus room and den downstairs. Immaculate. Mature landscaping and garage. Excellent value \$94,000. Call Earl Scoville 436-4488. A.E. Lepage
 For sale—Unique recreational property. Exciting canoeing, 70 acres of large island surrounded by North Saskatchewan River, 45 miles from Edmonton. Unspoiled. Call Maureen Westlake 434-6958, Spencer Real Estate 436-5250.

For sale—Laurier Heights Crescent, 86 Ave. - 114 St. Large, four bedroom split level. Developed basement, 15 mins. University. Close to all amenities. Excellent mortgage. Asking \$138,900. 483-1647.

Mature female wanted for co-op house. Delightful house in quiet neighborhood. Non-smoker preferred. Highlands. Daytime 432-4576.

For rent—Physician has house to share with gent or lady. Near University. \$280 monthly plus utilities. 432-8771 days, 432-9299 after 6 p.m.

For sale—Aspen Gardens. Bi-level, four bedrooms, \$125,000. First mortgage \$68,000 11½%, second mortgage 15%. Family room with fireplace. Quiet crescent. Recreation room. 434-3278.

For sale—University. 2½ year old, 5 level split, 5 bedrooms, 2 fireplaces, developed basement. Double garage plus many extras. Doreen 433-9406, 468-4695. Willes Real Estate.

For sale—Southgate area. Three bedroom bungalow in attractive neighborhood. Cozy fireplace. Bath and powder room. Appliances. Excellent bus service to University. \$116,000. 434-4669.

For rent—Attractive, two bedroom suite, lower half house. Furnished. Large treed 1½ lots. Washer, dryer. Walking distance hospital, University buses. \$347/month. Available 1 April. Jeff 1-245-8966 res., 1-269-3456 bus.

Accommodations wanted

Respectable couple now renting sabbatical house would like same, effective August 1981. 452-5615.

Wanted to rent—By 30 July, house with at least 2,000 sq. ft. Prefer Grandview or Riverbend area. Abstainers and non-smokers. Will give excellent care to property. Phone 435-2786.

B.C. Okanagan/Shuswap areas. Lakeside. July. Reasonable. M. Wyeth. 432-6641.

Senior Engineering executive requires furnished, two bedroom apartment or townhouse, 1 August 1981 until 31 July 1982. West end location preferred. Call Mrs. Stanley at 452-7794 between 8:30 a.m. and 4:30 p.m.

Goods for sale

Antiques: Period furniture, china, glass, silver, brass, cloisonné, estate jewellery, spoons, object d'art, collectibles. 1 - 4:30 p.m. Mary Goulden Antiques. 10437A 142 Street. 453-2008.
 We buy book collections—Individual

books—Special wants: Biblical scholarship, famous author fiction, classics. Bjarne's Books, 10005 82 Ave. (upstairs) 439-7133 afternoons.
 Ideal format. 6x7 cm. Mamiya Super 23 with accessories. 465-4034.
 Berber rugs: Excellent condition, clean; 9x12 dark gray, \$250. 4x6 light gray, \$40. 489-6333 evenings.

Services

Donnic Typing Services Ltd. Specializing in word processing. 301A 10454 Whyte Avenue. 432-1419.

Kozak Business Services: Complete typing service available. Student discount. #305, 9924 106 Street. 423-3068, 483-6075.

Painting, interior/exterior. Calico Decorators. Quality workmanship. References. Free estimates. 436-6239.

Reliable Typing Services, theses, reports, correspondence, etc. Phone 455-6024 evenings.

Typing on word processor. Call Darlene. 452-1074.

Singing teacher, Eileen Turner. 439-4661. Expert typing—thesis, etc. 455-0641.

Mothers and their 2 - 5 year old children required for studies (mother-child interaction). Study two hours daily, four days (non-consecutive). Parent training (certified psychologist) part of study. Call 432-2140.

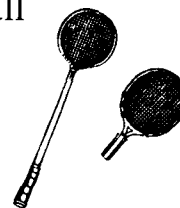
Graduate student researching women's experiences of motherhood, wishes to interview first-time mothers before and after delivery. Women approximately 30 weeks pregnant, interested in sharing experiences please contact: Janet 432-3226.

Nu-Tech Word Processing Services Ltd. Reports, theses, dissertations, mailing lists. 403, 10109 106 St. 428-0355.

March 25th registration—School of Alliance Française. Room 232. Education Bldg. S.—Children and adults. 6 April-17 June. Also three (two week sessions) 2 July-19 August everyday. For further information phone Beatrice Venot 433-9121.

Garneau Racquetball and Squash Courts

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Ph. 433-1806

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Fri.-Sat. 5-12
Sun. 5-10

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425-1404

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